Ashland Chemical
Key Facts At A Glance
Last Update: 7/28/04

Location:
10505 South Painter Avenue
Santa Fe Springs, CA 90670
Central Basin
Nearest active production well located ~5438 feet south of site

Description:
Ashland Chemical Company operated a chemical blending, packaging and distribution center at this 10-acre site. The facility utilized 46 USTs and 61 ASTs. Soil and groundwater beneath the site were impacted by historic releases of solvent chemicals. Ashland Chemical has performed soil and groundwater investigation and remediation activities at the site since 1984. The RWQCB and the City of Santa Fe Springs Fire Department have determined that no further soil remediation is required. However, groundwater remediation will continue until a "No Further Action" determination is made for groundwater. Following the "No Further Action" determination for site soils, Ashland Chemical sold the property to Painter Business Park, LLC. The property is currently being developed into a business park. Ashland Chemical will continue to be responsible for site groundwater remediation and monitoring.

Chemicals Detected:
VOCs formerly in soil and still remaining in groundwater, such as:
Benzene
Toluene
Ethylbenzene
Xylenes
1,2-dichloroethene (DCE)
Trichloroethene (TCE)
Vinyl chloride

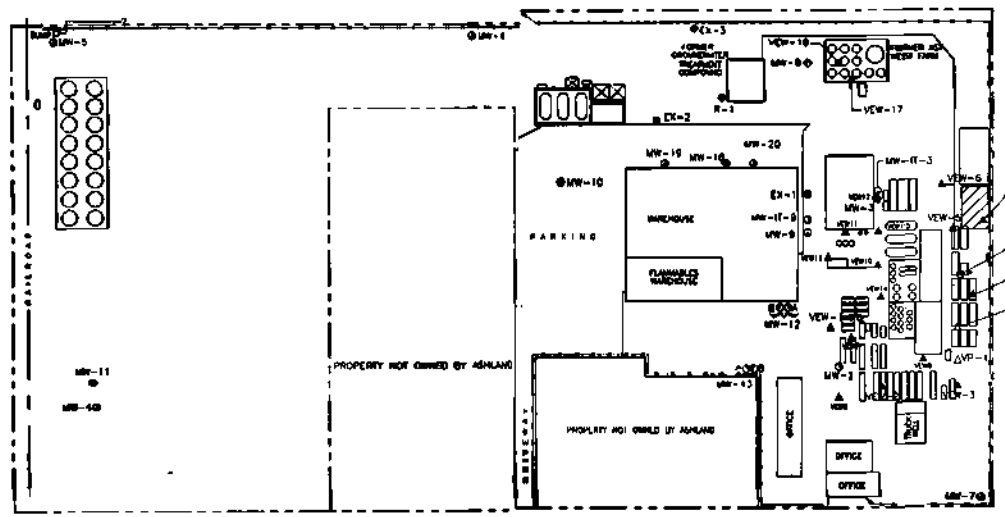
Extent:
Soil contamination was remediated via removal and SVE
The Bellflower Aquiclude is the uppermost geologic unit at the site, varying in thickness from 5 feet in the southern portion of the site to 30 feet in the northern portion of the site, and overlying the merged Artesia/Gage Aquifers
The merged Artesia/Gage Aquifers occur from approximately 30 feet to 90 feet bgs beneath the property, and contain the "shallow groundwater" at the site (first encountered at approximately 55 feet to 60 feet bgs)
Shallow groundwater at the site shows VOC contamination. For example, according to February 2002 Groundwater Monitoring Report, benzene = 120 ug/L max, ethylbenzene = 7,000 ug/L max, xylenes = 24,600 ug/L max, 1,2-DCE = 12,000 ug/L max
There is also regional VOC contamination in shallow groundwater. For example, groundwater southwest (downgradient) of the facility is contaminated with VOCs such as: vinyl chloride at 690 ug/L, benzene at 160 ug/L, and TCE at 760 ug/L. The vinyl chloride in the off-site downgradient wells may be the result of degradation products from the historical on-site releases at the facility
An aquiclude approximately 30 feet thick underlies the Artesia/Gage Aquifers and separates them from the Hollydale Aquifer, which contains "deep groundwater" at the site
VOC contamination also appears to be in deep groundwater, based on historical water quality data from site groundwater monitoring reports

Monitoring:
As of April 2004, ~19 monitoring wells in and around site, screened only in shallow groundwater (prior to site Redevelopment as a business park, there were ~33 monitoring wells, screened mostly in shallow groundwater, a few in deep groundwater)
Semiannual monitoring of water levels and VOC concentrations is performed

Remediation:
Removal actions were conducted during 1998 through 1999 for all tanks and associated soils that were sources of VOC contamination. These actions were completed by March 1999 under the oversight of the Santa Fe Springs Fire Department. The RWQCB is responsible for oversight of additional corrective action.
On-site soils were extensively remediated. Based upon documented results of confirmatory soil sampling, RWQCB and City of Santa Fe Springs approved "Soil Closure" of the site and required "No Further Action". In 2003, the SVE system was decommissioned. In total over 1,000,000 pounds of VOCs were removed.
A groundwater pump-and-treat system continues to operate to reduce concentrations of VOCs in on-site shallow groundwater. Off-site shallow groundwater VOC concentrations are expected to be reduced as a result of this system. Also, off-site VOC concentrations are controlled downgradient due to the groundwater extraction and treatment system at The Powerine Refinery, located approximately ¼ mile southwest (downgradient) of the site.

Procedures:
Ashland Chemical retains environmental consultant (URS Corporation) to manage its remediation and groundwater monitoring activities.

Stakeholders:
Ashland Chemical Company, RWQCB



LEGEND

- PROPERTY LINE
- CHAIN LINK FENCE
- PERFORATED UPPER & MID PORTION OF THE SHALLOW ZONE
- PERFORATED UPPER PORTION OF THE SHALLOW ZONE
- PERFORATED LOWER PORTION OF THE SHALLOW ZONE
- PERFORATED IN DEEP ZONE
- VAPOR EXTRACTION WELL
- GROUNDWATER EXTRACTION WELL
- FORMER UST LOCATION
- FORMER AST LOCATIONS

0 120 240

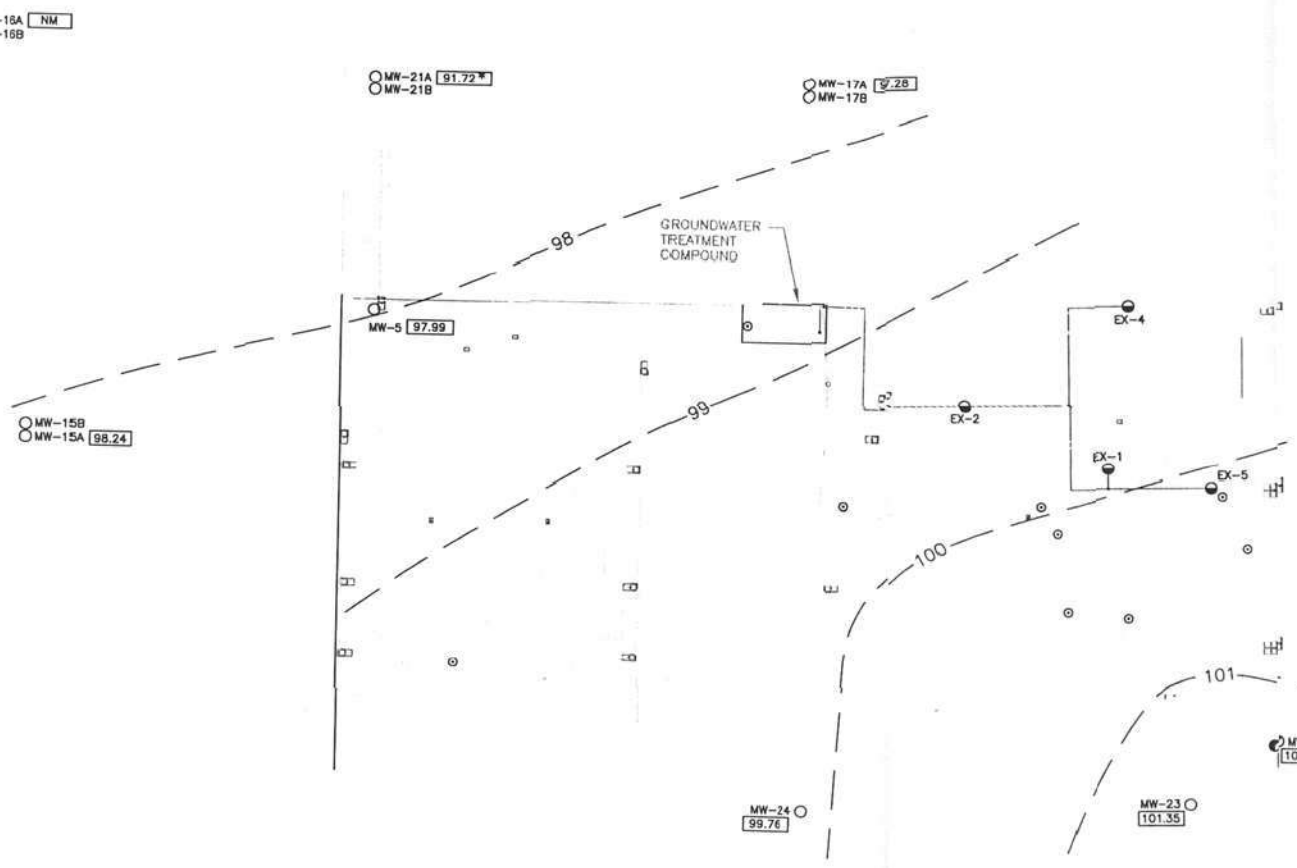
SCALE, feet

URS CORPORATION

FORMER SITE PLAN AND WELL LOCATIONS

Proj. No.: 37679241	Date: MAY 2004
Project: FORMER ASHLAND CHEMICAL SANTA FEE SPRINGS, CA	CAD ID.:
	Figure: 2

T:\2003\ASHLAND ALLIANCE\37679241 SFS\REPORTS\GW MONITORING\APRIL 2004 GW REPORT\FIGURES\FIGURE 2.DWG



LEGEND

- MW-5 EXISTING GROUNDWATER MONITORING WELL
- EX-4 GROUNDWATER EXTRACTION WELL
- 100 GROUNDWATER ELEVATION CONTOUR (FT MSL)
- 99.76 GROUNDWATER ELEVATION (FT MSL)
- FT MSL FEET ABOVE MEAN SEA LEVEL
- NM NOT MEASURED (WELL DRY)
- * DATA POINT NOT INCLUDED IN CONTOURING
- ⊙ PROPOSED REPLACMENT GROUNDWATER MONITORING WELL LOCATION

N

0 80 160

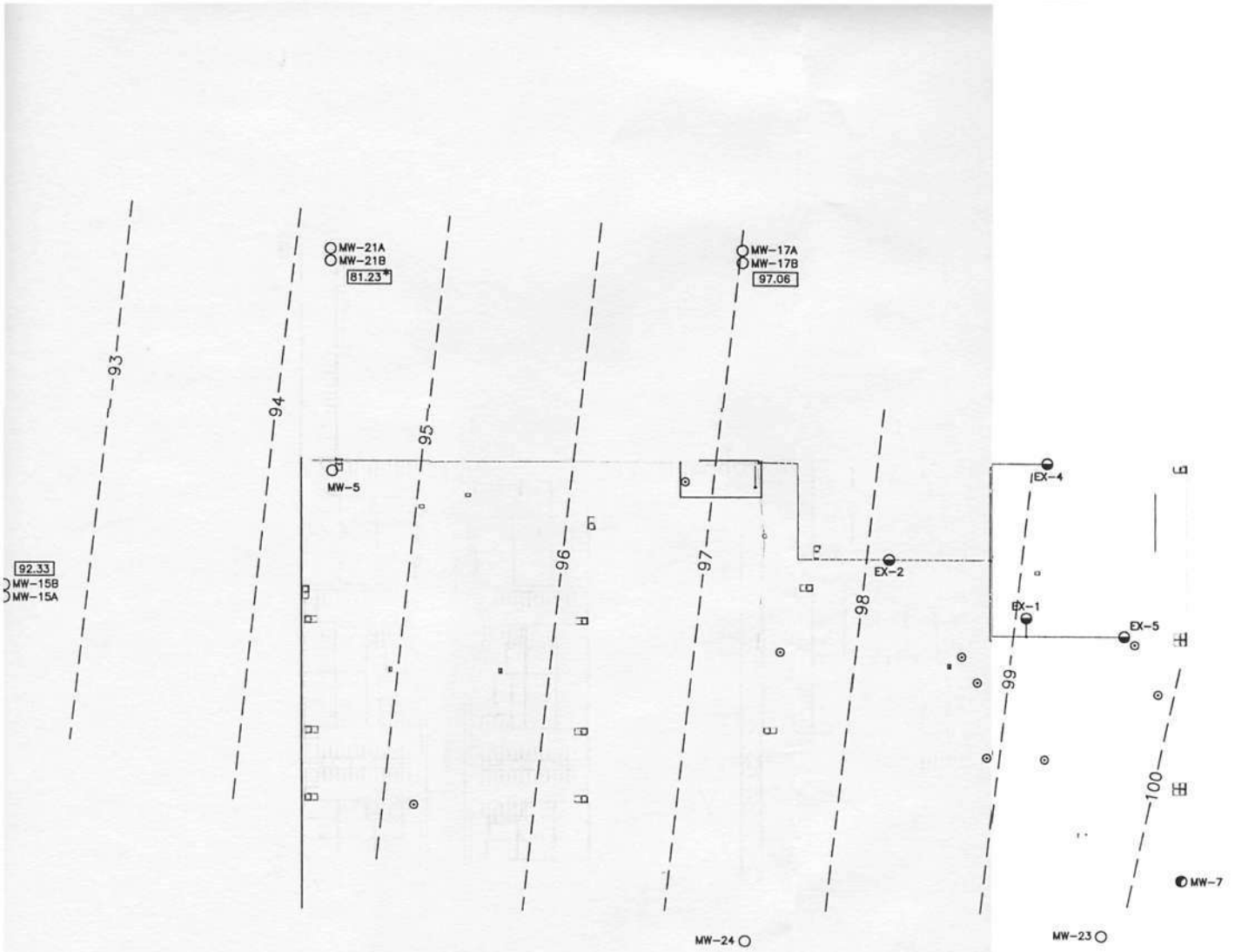
1" = 160'

URS CORPORATION

SITE RE-DEVELOPMENT PLAN
AND GROUNDWATER EQUIPOTENTIAL MAP
UPPER POTION OF THE SHALLOW ZONE
APRIL 28, 2004

Proj. No.: 37679241	Date: MAY 2004
Project: **FORMER ASHLAND CHEMICAL SANTA FE SPRINGS, CA**	CAD ID.:
	Figure: 4A

T:\2003\ASHLAND ALLIANCE\37679241 SFS\REPORTS\GW MONITORING\APRIL 2004 GW REPORT\FIGURES\FIGURE 4A.DWG



LEGEND

- MW-5 — GROUNDWATER MONITORING WELL
- EX-4 — GROUNDWATER EXTRACTION WELL
- 94 — GROUNDWATER ELEVATION CONTOUR (FT MSL)
- 92.33 — GROUNDWATER ELEVATION (FT MSL)
  FT MSL FEET ABOVE MEAN SEA LEVEL
- FT MSL — FEET ABOVE MEAN SEA LEVEL
- * — DATA POINT NOT INCLUDED IN CONTOURING
- ⊙ — PROPOSED REPLACMENT GROUNDWATER MONITORING WELL LOCATION

N

0 80 160

1" = 160'

URS CORPORATION

SITE RE-DEVELOPMENT PLAN
AND GROUNDWATER EQUIPOTENTIAL MAP
LOWER PORTION OF SHALLOW ZONE
APRIL 28, 2004

Proj. No.: 37679241	Date: MAY 2004
Project: **FORMER ASHLAND CHEMICAL SANTA FE SPRINGS, CA**	CAD ID.:
	Figure: 4B